

TELESAT
LIGHTSPEED™

**High-quality, low latency
connectivity for efficient
offshore operations**



TELESAT™

Low latency, high-speed broadband connectivity to offshore assets will accelerate digital transformation in the oil and gas industry. Increased automation with cloud-based applications to real-time communications capabilities will create new efficiencies.

Accelerate your digital transformation for remote and offshore assets with

TELESAT
LIGHTSPEED™



Telesat Lightspeed incorporates next-generation technology including:

Data Processing in Space

Full digital modulation, demodulation, and data routing occurs in space for processing, resulting in higher capacity and flexibility.

Phased Array Antennas

Sophisticated antennas on each satellite with hopping beams can dynamically focus capacity precisely where users require it.

Optical Inter-Satellite Links

Data can travel at the speed of light from one satellite to another, resulting in a fully interconnected global mesh network that allows customers to access the Telesat Lightspeed network no matter where they are.

Hybrid Orbits

Satellites fly in a combination of polar and inclined orbits, resulting in complete global coverage, including polar areas, with higher capacity where most of the world's population lives.

Telesat has developed a highly innovative global network composed of 298 state-of-the-art Low Earth Orbit (LEO) satellites seamlessly integrated with on-ground data networks.



Telesat Lightspeed meets critical connectivity requirements



Low Latency

Twenty times more responsive than today's GEO satellites for fibre-like performance enables remote monitoring, real-time video, increased automation and ability to connect to secure, cloud-based applications without applying TCP spoofing or acceleration techniques.



High Speed

Delivering guaranteed (CIR) speeds to a remote with multiple Gbps in downlink and uplink directions ensures hundreds of crewmembers and thousands of sensors remain well connected.



Resilient

Highly resilient network with multiple interconnected satellites always in view and multiple ground nodes without any single point of failure ensures your sites always stay connected.



Global & Scalable

Every point on Earth is covered, with multiple Tbps of capacity in the network to deliver enterprise-grade connectivity. Sophisticated antennas on each satellite with agile beams can dynamically focus capacity precisely where users require it.



Economical

Telesat Lightspeed delivers transformational total cost of ownership via a highly efficient network, low cost hardware and flexible business models that maximize utilization of the network.

Telesat has conducted several testing campaigns with leading maritime, aero and enterprise service providers, demonstrating industry-leading high throughput and quality.

Telesat Lightspeed services will be available through leading connectivity service providers. To learn more, visit www.telesat.com/lightspeed



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